	Application No.	Applicant(s)
Notice of Allowability	10/643,050	KUKULA, JAMES HERBERT
	Examiner	Art Unit
	Helen Rossoshek	2825
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>Amendment filed 01/18/2007</u> .		
2. The allowed claim(s) is/are <u>1-10</u> .		
 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	5.	(PTO-413),
 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material 	9.	nent/Comment ent of Reasons for Allowance
PAUL DINH PRIMARY EXAMINER Au Diwl		

DETAILED ACTION

- 1. This office action is in response to the Application 10/643,050 filed 08/18/2003 and amendment filed 01/18/2007.
- 2. Claims 1-10 remain pending in the Application. Claims 11-17 have been cancelled from the Application as non-elected claims.
 - 3. Applicant's arguments have been fully considered and are persuasive.

EXAMINER'S AMENDMENT

- 4. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 5. Authorization for this examiner's amendment was given in a telephone interview with Shun Yao (Registration No. 59,242) on 03/26/2007.

To claims

Claim 2 line 10 delete "unioning"

Claim 2 line 1 after "constraints" insert --during functional verification of a representation of an electronic design of an integrated circuit (IC)--

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Claim 9 line 1 after "product" insert --for solving during functional verification of a representation of an electronic design of an integrated circuit (IC)--

Claim 10 line 3 after constraints" insert --during functional verification of a representation of an electronic design of an integrated circuit (IC)--

Allowable Subject Matter

7. Claims 1-10 are allowed. The following is an examiner's statement of reasons for allowance:

Applicants are disclosing a method, computer system and computer program to implement the method's steps for solving constraints during functional verification of a representation of an electronic design of an integrated circuit including producing first and second solution generators and solving them within identifying a first and second sets of block-related and non-block-related constraints, conjoining them and existentially quantifying the first solution generator to produce a first new constraint including computing a union of the new constraint and the first set of non-block related constraints; producing a second solution generator by selecting second set of block-related constraints from the second set of constraints and conjoining the second set of block-related constraints; and solving the first solution generator using a second result of solving the second solution generator.

While these elements are individually disclosed in the prior art, the prior art of record does not disclose the specific arrangement of elements including conjoining of constraints to generate a solution generator; and existentially quantifying the first block from the first solution generator to produce a first new constraint.

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Dependent claims 3-8 are deemed allowable as being dependent from independent claim 2.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Helen Rossoshek whose telephone number is 571-272-1905. The examiner can normally be reached on 7:30-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Chiang can be reached on 571-272-7483. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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HR 03/26/2007 Helen Rossoshek Examiner Art Unit 2825

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